

TOPOLOGY SEMINAR

Guest Speaker: Alexander Kupers
University of Toronto

Date: Tuesday, March 23, 2021

Time: 2:30 PM

Location: Zoom

Zoom Link: notredame.zoom.us/j/97262637721

Lecture Title:

Embedding calculus and moduli spaces of manifolds

Abstract

Embedding calculus assigns to a manifold M the data of the collection of configuration spaces of various numbers of open balls in M and the natural maps between these. The Goodwillie-Klein-Weiss convergence results tell you that you can recover embeddings from their action on this data, as long as the codimension is at least 3. I will explain how this may be used to obtain information about moduli spaces of manifolds, and present some novel convergence results in low dimensions. This includes joint work with Manuel Krannich and Mauricio Bustamante.

